

CLAIMS:

1. A method of manufacturing a field emission device, comprising the steps of
 - providing a layer of liquid material on a substrate;
 - engaging a patterned stamp with said layer of liquid material, for embossing the layer,
 - curing the layer of liquid material, thereby forming a solidified, patterned dielectric layer,
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 - forming an electrode on said patterned dielectric layer.
2. The method of Claim 1, wherein the method comprises engaging substantially
cylindrical protrusions of the stamp with the layer of liquid material.
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3. The method of Claim 1, wherein the method comprises exerting an additional
pressure on the stamp during the engaging step, said pressure being set to a predetermined
value.
- 15 4. The method of Claim 1, wherein the liquid material comprises a hydrolysis
mixture of an organosilane compound and an inorganic filler material.
5. The method of Claim 1, wherein the liquid material comprises polyamide.
- 20 6. The method of Claim 1, wherein the step of forming the electrode comprises
the further steps of
 - providing a suspension comprising metal particles on a secondary stamp;
 - transferring part of said suspension onto elevated portions of the patterned dielectric
layer, and
 - 25 – annealing of the transferred suspension.
7. A field emission device, comprising
 - a field emitter material for emitting electrons;

- a first electrode and a second electrode for applying an electric field over said field emitter material and
- a dielectric layer substantially in between said first and second electrodes, said dielectric layer being patterned by means of a liquid embossing technique.

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8. The field emission device of Claim 7, wherein the dielectric layer comprises a pattern of gate holes for passing emitted electrons.

9. The field emission device of Claim 8, wherein the gate holes comprise a tapered portion adjacent the second electrode, the second electrode extending at least partly into the tapered portion of the gate holes.

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10. The field emission device of Claim 7, wherein the field emitter material comprises carbon nanotubes.

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11. The field emission device of Claim 7, wherein the field emitter material comprises a graphite particular emitter.

12. A display device, comprising a field emission device according to any of Claims 7-11.

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